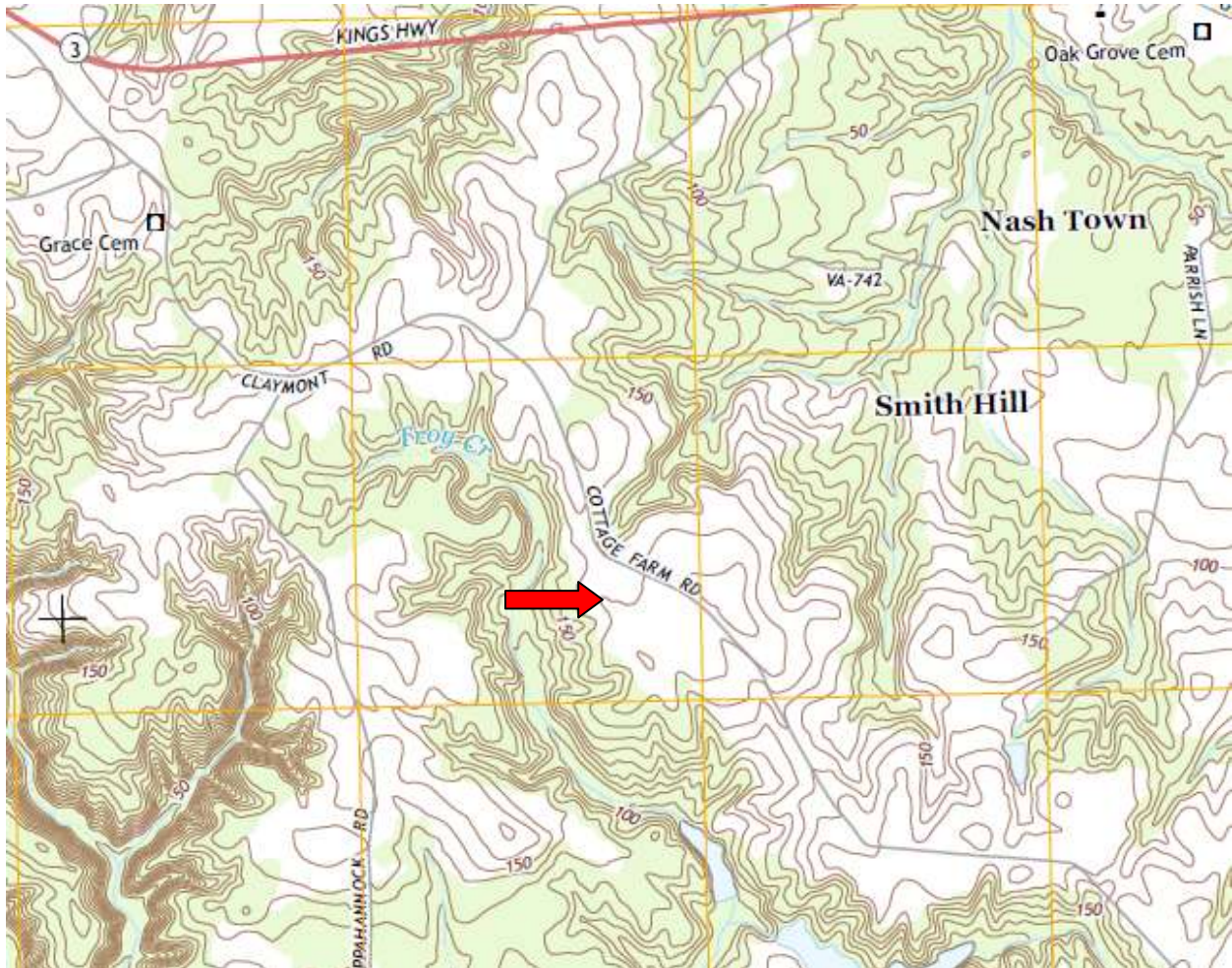


**GROVES FARM
WESTMORELAND COUNTY**

Owner: Frank T. Groves
1895 Cottage Farm Road, Colonial Beach, VA 22443

Groves Farm, owned by Frank T. Groves, is located on Cottage Farm Road in Westmoreland County. The fields being requested for application are identified by FSA Tract # and Field# as well as Westmoreland County TM identification.

Location Map Groves (77 01.378 W 38 10.015 N)



Tract 1393 includes three fields included on Westmoreland County TM 9 Parcel 108).

Westmoreland County, Virginia

Carol Gawen, Commissioner

[e-mail Carol Gawen](mailto:Carol.Gawen@wcgov.com)

Property Identification Card

Previous

Property Address	Owner Name/Address
	GROVES FRANK TIMOTHY
	1895 COTTAGE FARM ROAD
	COLONIAL BEACH VA 22443
Map#: 9 108	
Acct#: 15160-1	
Legal Description: PART CAMPBELLTON 101 AC DB 351 PG 148	
Occupancy: DWELLING	BK/PG: Deed 351/148
Dwelling Type: HUNT CLUB	
Use/Class: AGR-100 AC OR MORE	Acres: 101.000
Year Assessed: 2010	Year Built: 0
Zoning:	Year Rmld: 0
District: 03 WASHINGTON	Year Eff: 1950
MH/Type:	On Site Dte: 05/26/2009
Condition: DWELLING-FAIR	Review Date: 06/01/2009
	Land Use: 91450
	Tot. Mineral:
	Total Land: 233400
	Total Imp.: \$48,100
	Total Value: \$281,500

Improvement Description				4--10--4	
Exterior	Interior	Site			
CONSTRUCTION-WOOD	NO. BATHS = 1	STREET-GRAVEL	:	:	:
EXTERIOR FINISH-WO	FLOOR-PINE	UTILITIES-SEPTIC S	:	:	:
EXTERIOR-SIDING/SH	INTERIOR-SHEET ROC	UTILITIES-WELL	:	12	:
FOUNDATION-CINDER			:	:	:
ROOFING-COMP. SHIN			21	:	:
			:	-----22-----	:
Dwelling Valuation				:	:
Item	Size	Rate	Value	:	9
SINGLE FAM	1088	88.65	96451	:DNL :ENF	:
HEAT CTRL	1298	1.50	1947	4--10--4-----22-----	1
BATH-FULL	1	3000.00	3000	:	:
PRCH-ENC	256	35.00	8960	:	:
PRCH-ENC	207	35.00	7245	:	:
SINGLE FAM	210	94.60	19862	16	16
Grade Factor (D)			.80	:	:
Replacement Cost New			110000	:	:
Phys Depr. %	(.600)	1950 - FAIR	66000	:DNL	:
Total Bldg. Value			44000	1-----22-----	1
				:ENF	:
Other Improvements Valuation				8	8
Desc	Length	Width	Size	Grade	Rate
GAR U FR/	12.0	34.0	400		20.00
Total Imp Value					4080
Land Valuation				4100	
Desc	Front	Depth	Ac/Size	Op/Pot	Rate
OPEN-PASTU			49.000		3000.00
WOODED			51.000		2000.00
H/SITE			1.000		20750
UTIL - W/S					6000
Total Land Value			101.000		233400
Comments				Land	
EXCELLENT ROAD FRONTAGE RT 634				Cur. Value	
CAMPBELLTON HUNT CLUB				Prev. Value	
FR /MUL BLDGS NO VALUE				41600	
MARKET ADJUSTMENT FOR ALL NON WATER FRONT LAND				213000	
AND DOES NOT INCLUDE ANY ADJUSTMENT FOR W/S.				48100	
A 1% REDUCTION EFFECTIVE FOR 2010.				Total	
				281500	
				Average Price Per Acre	
				254600	
Total Property Value				281500	



REV. 1/66, 12/31/81, 6/31/95

SCALE IN FEET
0 100 200 300 400

WASHINGTON DISTRICT

SECTION 9



The field net application acreages are:

Field 1 – 8.9 Ac.

Field 4 – 4.1 Ac.

Field 2 – 27.6 Ac.

The FSA map showing the fields is provided.



United States Department of Agriculture FSN 453
Farm Service Agency

Grid:

WESTMORELAND COUNTY

1:6,000

August 27, 2008

Frank Groves

Disclaimer: Wetland identifiers do not represent the size, shape or specific determination of the area. Refer to your original determination (CPA-026 and attached maps) for exact wetland boundaries and determinations, or contact NRCS.

The fields are identified on topographic and soil maps. Predominant soils by field are:

T 1393 Field 1 – Map Unit Symbol is 23B. Map unit name is Turbeville Loam, 2 – 6% slopes.

T 1393 Field 4 – Map Unit Symbol is 23B. Map unit name is Turbeville Loam, 2 – 6% slopes.

T 1393 Field 2 – Map Unit Symbol is 23A & 23B. Map unit name is Turbeville Loam, 0-2% slopes (A) and 2 – 6% slopes (B).

USDA Soil descriptions of these major soil units are provided. Data from USDA NRCS Web Soil Survey.

23A—Turbeville loam, 0 to 2 percent slopes

Map Unit Setting

National map unit symbol: 41hp

Elevation: 200 to 900 feet

Mean annual precipitation: 32 to 48 inches

Mean annual air temperature: 47 to 69 degrees F

Frost-free period: 192 to 233 days

Farmland classification: All areas are prime farmland

Map Unit Composition

Turbeville and similar soils: 85 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Turbeville

Setting

Landform: Terraces

Landform position (three-dimensional): Tread

Down-slope shape: Convex

Across-slope shape: Convex

Parent material: Alluvium

Typical profile

H1 - 0 to 14 inches: loam

H2 - 14 to 40 inches: clay loam

H3 - 40 to 70 inches: clay loam

Properties and qualities

Slope: 0 to 2 percent

Depth to restrictive feature: More than 80 inches

Natural drainage class: Well drained

Runoff class: Negligible

Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.57 to 1.98 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Available water storage in profile: High (about 9.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Custom Soil Resource Report

17

Land capability classification (nonirrigated): 1

Hydrologic Soil Group: B

23B—Turbeville loam, 2 to 6 percent slopes

Map Unit Setting

National map unit symbol: 41hq

Elevation: 200 to 900 feet

Mean annual precipitation: 32 to 48 inches

Mean annual air temperature: 47 to 69 degrees F

Frost-free period: 192 to 233 days

Farmland classification: All areas are prime farmland

Map Unit Composition

Turbeville and similar soils: 85 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Turbeville

Setting

Landform: Terraces

Landform position (three-dimensional): Tread

Down-slope shape: Convex

Across-slope shape: Convex

Parent material: Alluvium

Typical profile

H1 - 0 to 14 inches: loam

H2 - 14 to 40 inches: clay loam

H3 - 40 to 70 inches: clay loam

Properties and qualities

Slope: 2 to 6 percent

Depth to restrictive feature: More than 80 inches

Natural drainage class: Well drained

Runoff class: Low

Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high
(0.57 to 1.98 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Available water storage in profile: High (about 9.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified

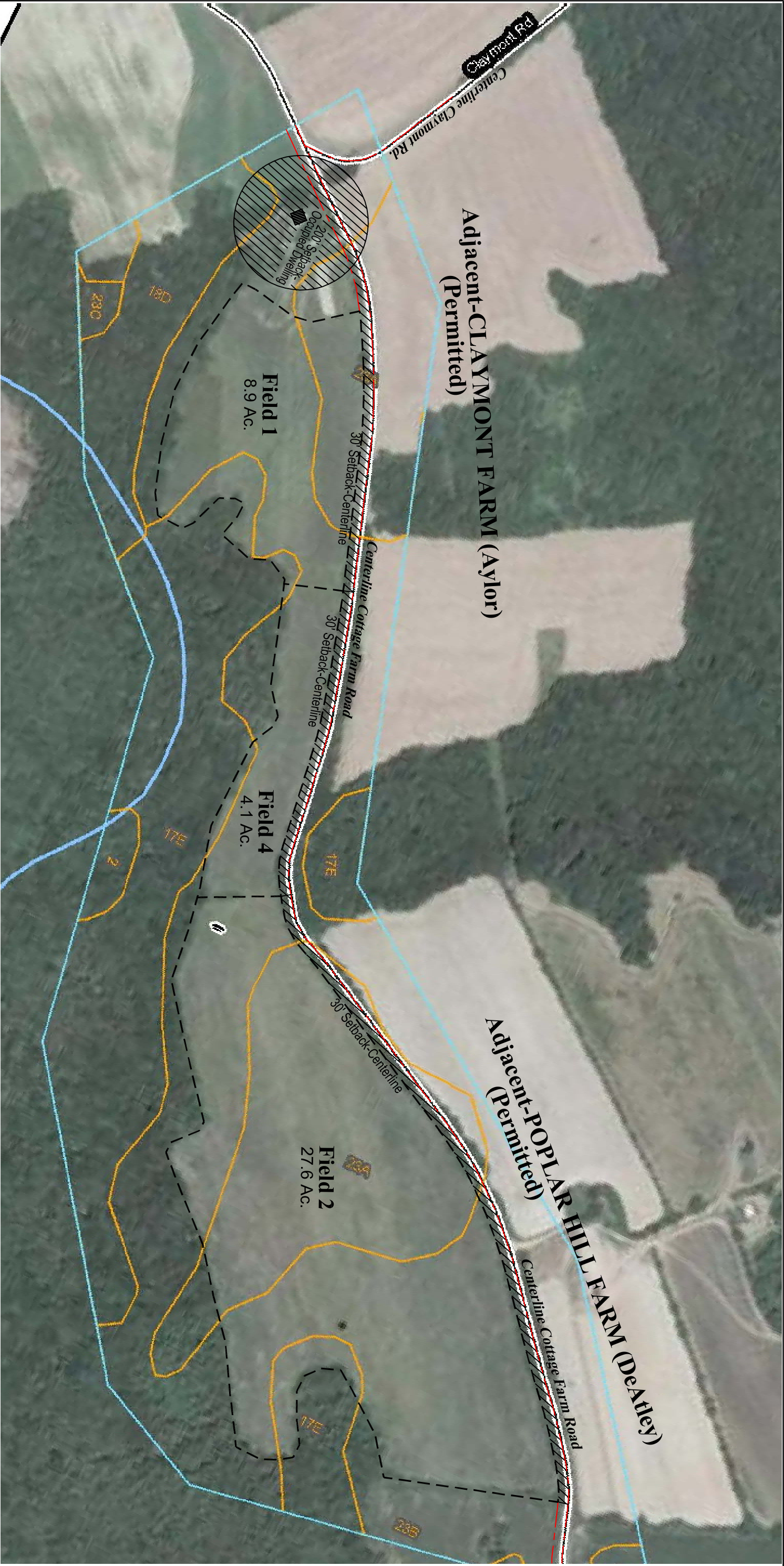
Land capability classification (nonirrigated): 2e

Hydrologic Soil Group: B

Custom Soil Resource Report 18

The sites are shown on a soil map from the USDA NRCS Web Soil Survey.

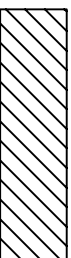

The sites are shown on the USGS topographic map.



NOTES

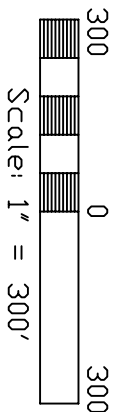
1. Information shown is either County, SCS or U.S.G.S. Map/Photo enlarged to indicated scale.
2. Property Boundaries, where shown, are approximate. This plan does not represent a survey of the property.

LEGEND

- — — — — LIMITS OF PROPOSED SLUDGE APPLICATION
-  RESTRICTED AREAS AND/OR VEGETATIVE BUFFER ZONES - Note, woodland areas not included in this evaluation
-  INDICATES DWELLING AND/OR COMMERCIAL ESTABLISHMENT WITH WELL, SEPTIC TANK & DRAINFIELD

Map Unit Legend

- 2 — Bibb an Levy soils
- 17E — Rufford soils, 15 to 50% slopes
- 18D — Rufford & Tetotum soils, 6 to 15% slopes
- 23A — Turbeville loam, 0 to 2% slopes
- 23B — Turbeville loam, 2 to 6% slopes
- 23C — Turbeville loam, 6 to 10% slopes

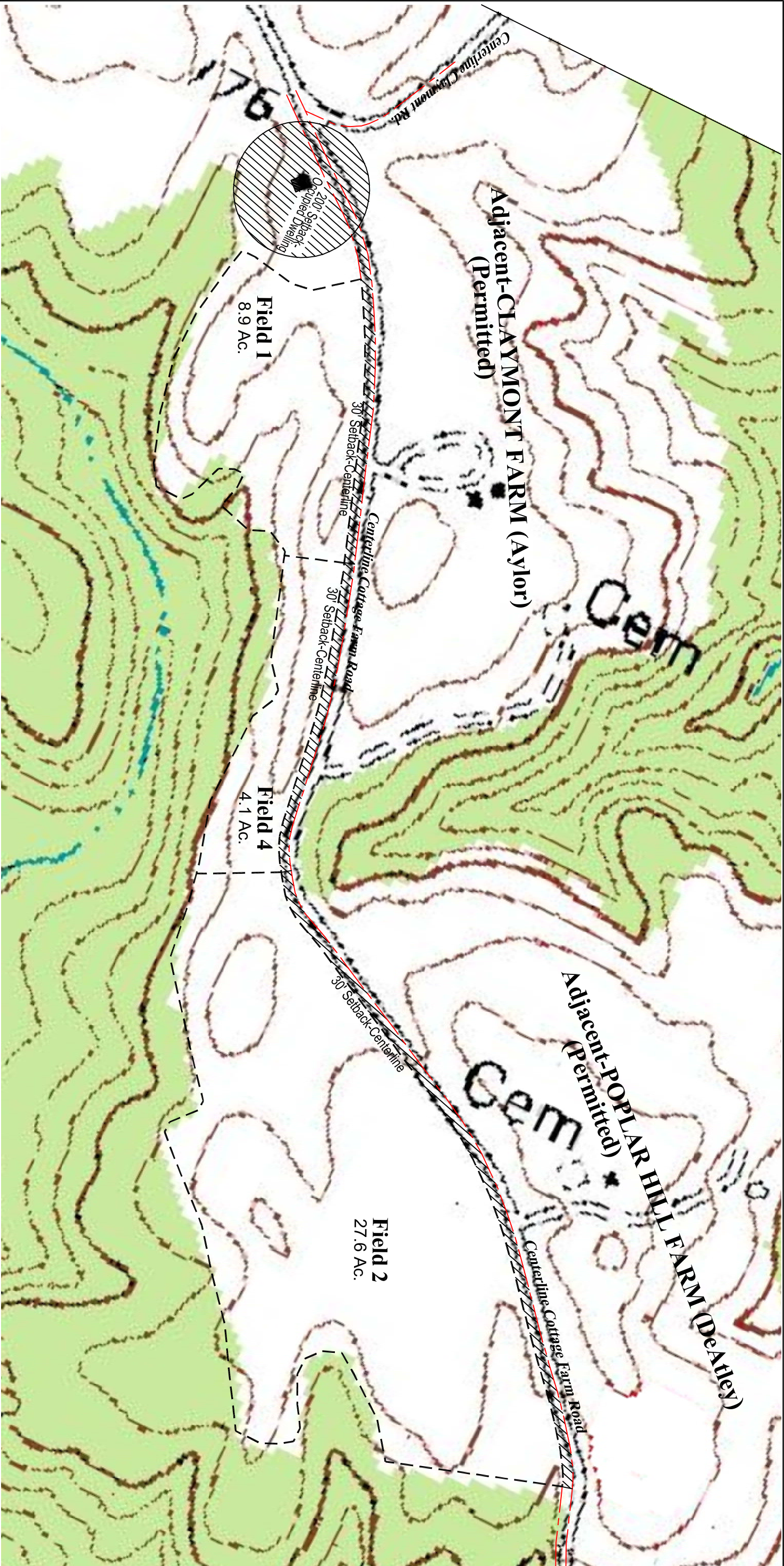


SOILS MAP - SLUDGE APPLICATION SITES

FRANK GROVES FARM
WESTMORELAND COUNTY, VIRGINIA
Prepared for CROPS, INC.

Date - December 14, 2009 - Fields to match FSA Designation
CULPEPER ENGINEERING, P.C.

3251 Germanna HWY, Locust Grove, VA 22508
Phone (540) 423-9706 FAX (540) 423-1534



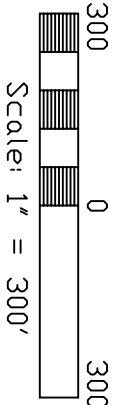
LEGEND

- LIMITS OF PROPOSED SLUDGE APPLICATION
- RESTRICTED AREAS AND/OR VEGETATIVE BUFFER ZONES - Note, woodland areas not included in this evaluation

INDICATES DWELLING AND/OR COMMERCIAL ESTABLISHMENT WITH WELL, SEPTIC TANK & DRAINFIELD

NOTES

- Information shown is U.S.G.S. Quadrangle Map or Photo enlarged to indicated scale.
- Property Boundaries, where shown, are approximate. This plan does not represent a survey of the property.



LOCATION MAP - SLUDGE APPLICATION SITES

FRANK GROVES FARM
WESTMORELAND COUNTY, VIRGINIA
Prepared for CROPS, INC.

CULPEPER ENGINEERING, P.C.
Date - December 14, 2009 - Fields to match FSA Designation
3251 Germanna HWY, Locust Grove, VA 22508
Phone (540) 423-9706 FAX (540) 423-1534

**VPDES SEWAGE SLUDGE PERMIT APPLICATION FORM
SECTION C: LAND APPLICATION OF BULK BIOSOLIDS**

LAND APPLICATION AGREEMENT - BIOSOLIDS

A. This land application agreement is made on 11-21-12 between Frank T. Groves referred to here as "Landowner", and Crops Inc. referred to here as the "Permittee". This agreement remains in effect until it is terminated in writing by either party or, with respect to those parcels that are retained by the Landowner in the event of a sale of one or more parcels, until ownership of all parcels changes. If ownership of individual parcels identified in this agreement changes, those parcels for which ownership has changed will no longer be authorized to receive biosolids or industrial residuals under this agreement.

Landowner:

The Landowner is the owner of record of the real property located in Westmoreland, Virginia, which includes the agricultural, silvicultural or reclamation sites identified below in Table 1 and identified on the tax map(s) attached as Exhibit A.

Table 1.: Parcels authorized to receive biosolids

<u>Tax Parcel ID</u>	<u>Tax Parcel ID</u>	<u>Tax Parcel ID</u>	<u>Tax Parcel ID</u>
9-108			

☐ Additional parcels containing Land Application Sites are identified on Supplement A (check if applicable)

Check one:

- ☒ The Landowner is the sole owner of the properties identified herein.
☐ The Landowner is one of multiple owners of the properties identified herein.

In the event that the Landowner sells or transfers all or part of the property to which biosolids have been applied within 38 months of the latest date of biosolids application, the Landowner shall:

3. Notify the purchaser or transferee of the applicable public access and crop management restrictions no later than the date of the property transfer; and
4. Notify the Permittee of the sale within two weeks following property transfer.

The Landowner has no other agreements for land application on the fields identified herein. The Landowner will notify the Permittee immediately if conditions change such that the fields are no longer available to the Permittee for application or any part of this agreement becomes invalid or the information herein contained becomes incorrect.

The Landowner hereby grants permission to the Permittee to land apply biosolids on the agricultural sites identified above and in Exhibit A. The Landowner also grants permission for DEQ staff to conduct inspections on the land identified above, before, during or after land application of biosolids for the purpose of determining compliance with regulatory requirements applicable to such application.

Frank T. Groves x Frank T. Groves 895 Cottage Farm Rd
 Landowner - Printed Name, Title Signature Mailing Address
Colonial Beach, Va. 22443

Permittee:

Crops Inc., the Permittee, agrees to apply biosolids on the Landowner's land in the manner authorized by the VPDES Permit Regulation and in amounts not to exceed the rates identified in the nutrient management plan prepared for each land application field by a person certified in accordance with §10.1-104.2 of the Code of Virginia.

The Permittee agrees to notify the Landowner or the Landowner's designee of the proposed schedule for land application and specifically prior to any particular application to the Landowner's land. Notice shall include the source of residuals to be applied.

☐ I reviewed the documents assigning signatory authority to the person signing for landowner above. I will make a copy of this document available to DEQ for review upon request. (Do not check this box if the landowner signs this agreement)

Rodney D. Rollins Rodney D. Rollins Pres 10558 Kings Hwy
 Permittee - Authorized Representative Signature Mailing Address
 Printed Name King George VA
22481

VPDES SEWAGE SLUDGE PERMIT APPLICATION FORM
SECTION C: LAND APPLICATION OF BULK BIOSOLIDS

LAND APPLICATION AGREEMENT - BIOSOLIDS

Permittee: Crops Inc. County or City: Westmoreland
Landowner: Frank T. Groves

Landowner Site Management Requirements:

I, the Landowner, I have received a DEQ Biosolids Fact Sheet that includes information regarding regulations governing the land application of biosolids, the components of biosolids and proper handling and land application of biosolids.

I have also been expressly advised by the Permittee that the site management requirements and site access restrictions identified below must be complied with after biosolids have been applied on my property in order to protect public health, and that I am responsible for the implementation of these practices.

I agree to implement the following site management practices at each site under my ownership following the land application of biosolids at the site:

1. Notification Signs: I will not remove any signs posted by the Permittee for the purpose of identifying my field as a biosolids land application site, unless requested by the Permittee, until at least 30 days after land application at that site is completed.
2. Public Access
 - a. Public access to land with a high potential for public exposure shall be restricted for at least one year following any application of biosolids.
 - b. Public access to land with a low potential for public exposure shall be restricted for at least 30 days following any application of biosolids. No biosolids amended soil shall be excavated or removed from the site during this same period of time unless adequate provisions are made to prevent public exposure to soil, dusts or aerosols;
 - c. Turf grown on land where biosolids are applied shall not be harvested for one year after application of biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by DEQ.
3. Crop Restrictions:
 - a. Food crops with harvested parts that touch the biosolids/soil mixture and are totally above the land surface shall not be harvested for 14 months after the application of biosolids.
 - b. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after the application of biosolids when the biosolids remain on the land surface for a time period of four (4) or more months prior to incorporation into the soil,
 - c. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months when the biosolids remain on the land surface for a time period of less than four (4) months prior to incorporation.
 - d. Other food crops and fiber crops shall not be harvested for 30 days after the application of biosolids;
 - e. Feed crops shall not be harvested for 30 days after the application of biosolids (60 days if fed to lactating dairy animals).
4. Livestock Access Restrictions:

Following biosolids application to pasture or hayland sites:

 - a. Meat producing livestock shall not be grazed for 30 days,
 - b. Lactating dairy animals shall not be grazed for a minimum of 60 days.
 - c. Other animals shall be restricted from grazing for 30 days;
5. Supplemental commercial fertilizer or manure applications will be coordinated with the biosolids and industrial residuals applications such that the total crop needs for nutrients are not exceeded as identified in the nutrient management plan developed by a person certified in accordance with §10.1-104.2 of the Code of Virginia;
6. Tobacco, because it has been shown to accumulate cadmium, should not be grown on the Landowner's land for three years following the application of biosolids or industrial residuals which bear cadmium equal to or exceeding 0.45 pounds/acre (0.5 kilograms/hectare).

X Frank T. Groves
Landowner's Signature

11-21-12
Date

LAND APPLICATION AGREEMENT - BIOSOLIDS

City/County: Westmoreland

Table 1 continued: Parcels authorized to receive biosolids.

Frank T. Groves
Landowner - Printed Name

x Francis S. Groves
Signature

1895 Cottage Farm Rd. Col. Beach, Va
22443
Mailing Address